1. **Product and Company Identification**
   **Product Name:** Puff Additive

   **Contact Information:**
   Rupert Gibbon & Spider, Inc.
   1147 Healdsburg Ave.
   Healdsburg, CA 95448
   800-442-0455

   **CHEMTREC (24HR Emergency Telephone), call:**
   1-800-424-9300
   **International CHEMTREC, call:** 1-703-527-3887
   **For non-emergency assistance, call:** 800-442-0455

2. **Hazardous Identification**
   The product has no hazardous conditions.

3. **Composition/information on Ingredients**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>EINECS No</th>
<th>Content</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blowing agent substance with a-Isobutane community workplace</td>
<td>75-28-5</td>
<td>200-857-2</td>
<td>3-5.5%</td>
<td>F+; R12</td>
</tr>
<tr>
<td>exposure limit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copolymer</td>
<td>25214-39-5</td>
<td></td>
<td>&gt;40%</td>
<td></td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>50-00-0</td>
<td></td>
<td>Trace</td>
<td></td>
</tr>
<tr>
<td>Residual Monomers</td>
<td>n/a</td>
<td></td>
<td>&gt;0.05</td>
<td></td>
</tr>
</tbody>
</table>

4. **First Aid Measures**

   **Eye Contact:** Flush with water for at least 15 minutes. If irritation develops, get medical attention.
   **Skin Contact:** Wash with soap and water.
   **Ingestion:** Rinse mouth and then drink plenty of water.
   **Inhalation:** Remove to fresh air for relief.

5. **Fire-Fighting Measures**

   **Flash Point:** >200 F
   **Extinguishing Media:** Foam, Co2, Dry Chemical or water mist. Containers close to fire should be transferred to a safe place.
   **Special Fire Fighting Procedures:** Wear self-contained breathing apparatus
   **Unusual Fire or Explosive Hazards:** Corrosive (hydrogen chloride) and toxic fumes may occur as a decomposition product in case of fire.
6. **Accidental Release Measures**  
If material is spilled dike to contain spill. Keep product from entering drains. Recover free product. Collect remaining product with absorbent materials.

7. **Handling and Storage**  
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breath vapors, mist or gas. Further information on storage conditions: Keep from freezing-product stability may be affected. Stir well before use.

8. **Exposure Controls/Personal Protection**  
**Respiratory Protection:** Not necessary at room temperature.  
**Ventilation:** Local exhaust as needed near processing equipment.  
**Protective Gloves:** Usually not required.  
**Eye Protection:** Safety glasses recommended  
**Other Protection:** Usually not required.  
**Storage & Handling:** Do not store near heat or flame. Material can gel with long exposure to elevated temperatures (above 95 F). Wash thoroughly after handling.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</th>
<th>Content</th>
<th>Permissible Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile</td>
<td>107-13-1</td>
<td>&lt;0.0025</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Vinlylidene chloride</td>
<td>75-35-4</td>
<td>&lt;0.025</td>
<td>5 ppm, 20mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 ppm 8 mg/m³</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>3-5.5%</td>
<td>800 ppm</td>
</tr>
</tbody>
</table>

9. **Physical and Chemical Properties**  
**Boiling Point:** N/A  
**Vapor Pressure:** N/A  
**Vapor Density:** >1  
**Solubility in Water:** N/A  
**Appearance & Odor:** Thick Liquid  
**Specific Gravity:** 1.14-1.45  
**Melting Point:** N/A  
**Evaporation Rate:** N/A

10. **Stability and Reactivity**  
**Stability:** Stable  
**Incompatibility (materials to avoid):** None  
**Hazardous Decomposition Products:** CO3, CO2  
**Hazardous Polymerization:** Will not occur

11. **Toxicological Information**  
Tests according to Magnusson and Kligman gave no reasons to believe the product can cause allergy.
Routes of Entry: N/A
Acute: N/A
Chronic: N/A
Carcinogenic: Formaldehyde and trace amounts of acrylic monomers. Listed hazard values refer only to Formaldehyde in its gaseous form. These liquid paints contact the dissolved form.

Signs & Symptoms of Exposure: Low hazard for industrial use. Any material that contacts the eye may cause a mechanical irritation. Very low toxicity if ingested. Fumes formed at elevated temperatures can be irritating if inhaled.
Medical Conditions Aggravated by Exposure: N/A

12. Ecological Information
Acute toxicity LC$_{50}$ for goldfish at 96 hours exposition is higher than 5000 ppm. Compound can be stated as “non-toxic absolutely”.

In test with Pseudomonas putida, despite maximum amount of 10 g/liter, no toxicological effect was found.

The product is not biologically decomposable.

13. Disposal Considerations
Dispose of materials in accordance with the applicable local, state and federal regulations.

14. Transport Information
Not regulated

15. Regulatory Information
The present components are listed in the following chemical inventories:
USA TSCA
Europe EINECS
Australia AICS
Canada DSL
Japan MITI/ENCS
Korea ECL
China SEPA/IECSC
The Philippines PICCS
Switzerland SWISS

16. Other Information
The information contained in this SDS is based on data from sources considered to be reliable but Rupert, Gibbon & Spider, Inc. does not guarantee the accuracy or completeness thereof. Rupert, Gibbon & Spider, Inc. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.